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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,783	09/22/2003	Yun-Chung Lee	J2P3005-P1679US 9011	
7590 07/14/2004			EXAMINER	
Yun-Chung Lee			DURAND, PAUL R	
235 Chung-Ho Box 8-24			ART UNIT	PAPER NUMBER
Taipei,			3721 DATE MAILED: 07/14/2004	
TAIWAN				

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/666,783	LEE, YUN-CHUNG				
Office Action Summary	Examiner	Art Unit				
	Paul Durand	3721				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	rely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
•	action is non-final.					
3) Since this application is in condition for allowar						
Disposition of Claims						
<ul> <li>4) ☐ Claim(s) 1-5 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdraw</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 1-5 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or</li> </ul>						
Application Papers						
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 22 September 2003 is/a Applicant may not request that any objection to the a Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	are: a)⊠ accepted or b)□ objecd drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)  1)  Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da					

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#### **DETAILED ACTION**

## Claim Objections

1. Claims 1-5 are objected to because of the following informalities: the claims contain spelling and/or grammatical errors. Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, Lines 12-15, the recitation is generally narrative in  $\mathcal{P}$  ature, making the claimed limitation difficult to understand. Furthermore, it is not clear to the examiner how the piston rod interacts with the "plurality of supporting holes". The specification discloses that the piston rod is coupled to one polygonal supporting center hole and the plurality if supporting holes is coupled to a plurality of pivotal shafts "45".

## Claim Rejections - 35 USC § 102

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Ohmori et al (US 5,730,035).

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In regard to claim 1, Ohmori discloses the invention as claimed including pneumatic motor 13, cylinder 2, piston 3, with spline shaft 8 integral with the piston and driven with the pneumatic motor, rotor 16, functioning as a spindle, with a rod groove in the form of ball spline 14, output disk in the form of clutch 15, which contains a spline hole for shaft 8 (see Figs. 1-5 and C3,L66 – C4,L46).

#### Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohmori et al in view of Arata et al (US 5,862,724).
- 7. In regard to claims 2-4, Ohmori discloses the invention substantially as claimed as applied to claim 1. What Ohmori does not disclose is the use of a planetary gears set to provide rotary motion for the tool. However Arata teaches that it is old and well known in the art of tool driving to provide a planetary gears set 33, comprised of sun gear 34 driving planetary gears 35, which is coupled to rotating disc 39, located between the disc 39 and the spindle of motor 31 and where the output disc 39 is coupled to a bearing (no number given, but located below disc 39 in Figure 1) for the purpose driving a tool. Therefore, it would have been obvious to one having ordinary

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skill in the art the time the invention was made to have provided the invention of Ohmori with the drive means as taught by Arata for the purpose driving a tool.

In regard to claim 5, While the modified invention of Ohmori does not specifically teach of a bush to drive the piston rod in a rotational manner, the examiner takes

Official Notice that it is old and well known in the art to provide a bush that is mated to a rotational member and is keyed to fit a driving member for the purpose of efficiently driving a tool bit in a rotational manner. Therefore, it would have been obvious to on having ordinary skill in the art at the time the invention was made to have provided the modified invention of Ohmori with a bush attached to a rotating member for the purpose of efficiently driving a tool bit in a rotational manner.

#### Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kamo et al, Liao, Borries et al, Uno et al, Tanaka, Groshams et al, Uno et al, Grossmann et al and Leoni have been cited to show devices having similar structure.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Durand whose telephone number is 703-305-4962. The examiner can normally be reached on 0730-1800, Monday Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I Rada can be reached on 703-308-2187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Durand July 8, 2004

> EUGENE KIM PRIMAH : EXAMINER